Primary Antibodies

Antibody	Specificity and Notes	Species Specificity
Antibodies for Neuroscience and Signal Transduction Research (continued)		
Anti-Alzheimer precursor protein A4, formalin grade (Pre-A4) (clone 22C11) Cat. No. 1285 262	The antibody was produced by immunization with the fusion protein pre-$A4_{695}$, and reacts with the human Alzheimer precursor protein A4. It shows cross-reactivity with the pre-A4 molecules from fish, rat, mouse, and monkey. **Stability:** Lyophilizate is stable at +4°C. Reconstituted antibody solution (200 µg/ml in water) is stable at –20°C. Avoid repeated freezing and thawing.	human, mouse, r fish, monkey
Anti-β-Amyloid, Alzheimer Cat. No. 1381 431	The antibody reacts with plaques in brain cryosections of Alzheimer patients. **Stability:** Lyophilizate is stable at +4°C. Reconstituted antibody solution (200 µg/ml in water) is stable at –20°C. Avoid repeated freezing and thawing.	human
NEW **Anti-Ca^{2+}/calmodulin-dependent protein kinase type II** (clone 6G9) Cat. No. 1481 703	Recognizes the α-subunit of Ca^{2+}/calmodulin-dependent protein kinase II and reacts with tissue from all mammalian species tested, as well as with chicken and frog tissues. **Stability:** Stable at –20°C.	mammals, chicke frog
Anti-calcitonin gene-related peptide, human Cat. No. 1295 241	To obtain the polyclonal antiserum, rabbits were immunized with calcitonin gene-related peptide. The antibody is suitable for detection of CGRP on brain sections. **Stability:** Lyophilizate is stable at +4°C. Reconstituted antibody solution (200 µg/ml in water) is stable at –20°C. Avoid repeated freezing and thawing.	human, mouse, r chicken
Anti-L-CAM/Uvomorulin (clone 6F9) Cat. No. 1441 892	The antibody specifically recognizes the 120 kD and the 80 kD band of L-CAM/Uvomorulin (Arc-1 E-cadherin cell-CAM 120/80) in man and rabbit. L-CAM/Uvomorulin staining is confined to the lateral border of epithelial cells and, within the intestine, shows more intense concentrations in the area of the junctional complex. As a positive control, the cell line MCF-7 can be used. **Stability:** Lyophilizate is stable at +4°C. Reconstituted antibody solution (200 µg/ml in water) is stable at –20°C. Avoid repeated freezing and thawing.	human, rabbit
Anti-choline acetyltransferase (ChAT) (clone 11-255) Cat. No. 770 981	The antibody reacts with choline acetyltransferase from monkey, pig, rat, and mouse. **Stability:** Lyophilizate is stable at –20°C. Store reconstituted antibody solution at +4°C. **Do not freeze.**	mouse, rat, pig, monkey
Anti-choline acetyltransferase, human (ChAT) (clone 1.B3.9B3) Cat. No. 1464 272	The antibody reacts with choline acetyltransferase from man, rat, and pig. The antibody can be used for investigating the decrease of the cholinergic system in Alzheimer's disease. **Stability:** Stable at +4°C.	human, rat, pig
Anti-chromogranin A (clone LK2H10) Cat. No. 1199 021	The antibody recognizes the 68 kD protein, chromogranin A, found exclusively in secretory storage granules of almost all neuroendocrine cells. The antibody binds small cell carcinoma of the lung, Merkel cell carcinomas and neuroblastomas weakly; binds most other endocrine-derived tumors strongly. Primary antibody for immunohistochemical detection and characterization of normal endocrine cells and endocrine-derived tumor cells [Lloyd, R.V. and Wilson, B.S. (1983) *Science* 222, 628-630; Wilson, B.S. and Lloyd, R.V. (1984) *Am. J. Pathol.* 115, 458-468]. **Stability:** Stable at +4°C for prolonged storage, aliquot and store at –20°C or colder. Avoid repeated freezing and thawing.	human, monkey, pig
Anti-CNP (2',3'-cyclic nucleotide 3'-phosphodiesterase) (clone 11-5B) Cat. No. 1442 007	The antibody reacts with both CNPase 1 and CNPase 2 (2',3'-cyclic nucleotide 3'-phospho-diesterase) and is used as an oligodendrocyte and Schwann cell marker. **Stability:** Lyophilizate is stable at +4°C. Reconstituted antibody solution (200 µg/ml in water) is stable at –20°C. Avoid repeated freezing and thawing.	human, mouse, ra rabbit, bovine, dog sheep
NEW **Anti-dystrophin** (clone 1808C) Cat. No. 1558 722	The antibody recognizes dystrophin, the 427 kD product of a 14 kb transcript encoded by the Duchenne muscular dystrophy gene locus on chromosome Xp21. It does not label human Duchenne muscle or mouse mdx (murine muscular dystrophy) tissue, and it does not cross-react with proteins closely related to dystrophin (*e.g.*, C-protein, α-actin, or human muscle spectrin). **Reference:** Hoffman, E.P., Brown, R.H. and Kunkel, L.M. (1987) *Cell* 51,919. **Stability:** The antibody is stable for 18 months at +4°C or 2 years at –20°C. Once reconstituted, store the antibody in aliquots at –20°C to avoid repeated freezing and thawing. Avoid gross bacterial contamination.	human, rat, mouse other mammalian, chicken, frog
Anti-β-Endorphin (clone 3-E7) Cat. No. 1089 170	The antibody reacts with the NH2-terminal Tyr-Gly-Gly-Phe-sequence of human β-endorphin. Therefore, there is a high cross-reactivity with homologues with the same sequence like (Met)-enkephalin and (Leu)-enkenhalin and many opioid peptides. The antibody reacts with β-endorphin from pig and camel. **Stability:** Lyophilizate is stable at –20°C. Store the reconstituted antibody solution at +4°C.	human, pig, camel
Anti-$GABA_A$ receptor, α-chain (Anti-γ-aminobutyric acid) (clone bd 24) Cat. No. 1381 440	The antibody reacts with the α-chain of $GABA_A$ receptor from cow and rat. **Stability:** Lyophilizate is stable at +4°C. Reconstituted antibody solution (200 µg/ml in water) is stable at –20°C. Avoid repeated freezing and thawing.	human, bovine
Anti-$GABA_A$ receptor, β-chain (Anti-γ-aminobutyric acid) (clone bd 17) Cat. No. 1381 458	The antibody reacts with the β-chain of $GABA_A$ receptor from cow, man, and rat. **Stability:** Lyophilizate is stable at +4°C. Reconstituted antibody solution (200 µg/ml in water) is stable at –20°C. Avoid repeated freezing and thawing.	human, rat, bovine, cat

B = Southern/northern/dot blots
C = Cryosections
CD = Cluster of Differentiation
E = ELISA
FC = Flow cytometry
IC = Immunocytochemistry
IHC = Immunohistochemistry
IP = Immunoprecipitation
N = Neutralizing
P = Paraffin sections
S = Histological sections
W = Western (proteins) blots

Note: Listed applications are tested by Boehringer Mannheim. Any application not listed